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TITLE: Relational emulation of a  
multi-dimensional database  
index

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Abstract Text - ABTX (1):

A method, apparatus, and article of manufacture for using a relational database management system to support on-line analytical processing (OLAP) systems. A multi-dimensional database is defined having a set of multi-dimensional data blocks and a set of identifiers comprising selected dimensions of multi-dimensional data for identifying particular ones of the multi-dimensional data blocks. The set of identifiers provides an ordering of the multi-dimensional data blocks using multi-dimensional member identifiers and holds usage information and age information about the multi-dimensional data blocks. The data in the set of multi-dimensional data blocks is stored in a relational database that represents the multi-dimensional database. Then, a set of rows representing a multi-dimensional data block is accessed from the relational database.

L Number	Hits	Search Text	DB	Time stamp
1	6793	spreadsheet (spread adj1 sheet)	USPAT	2003/07/14 10:06
2	2410	((spreadsheet (spread adj1 sheet)) and (tab index)	USPAT	2003/07/14 09:48
3	15	((spreadsheet (spread adj1 sheet)) with (portion block row column) with (tab label index) with (creat\$3 defin\$3 assign\$3 specif\$4)	USPAT	2003/07/14 10:04
4	16526	((portion block row column) with (tab label index) with (creat\$3 defin\$3 assign\$3 specif\$4)	USPAT	2003/07/14 10:06
5	21199	((portion block row column) with (tab label index) with (creat\$3 defin\$3 assign\$3 specif\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/14 10:48
6	12558	spreadsheet (spread adj1 sheet)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/14 10:08
7	21	((portion block row column) with (tab label index) with (creat\$3 defin\$3 assign\$3 specif\$4)) with (spreadsheet (spread adj1 sheet))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/14 10:09
8	6	((portion block row column) with (tab label index) with (creat\$3 defin\$3 assign\$3 specif\$4)) with (spreadsheet (spread adj1 sheet))) not ((spreadsheet (spread adj1 sheet)) with (portion block row column) with (tab label index) with (creat\$3 defin\$3 assign\$3 specif\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/14 10:09
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11	4312	((page) with (tab identif\$5 label index) with (creat\$3 defin\$3 assign\$3 specif\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/14 10:41
12	4	((spreadsheet (spread adj1 sheet)) with ((page) with (tab identif\$5 label index) with (creat\$3 defin\$3 assign\$3 specif\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/14 10:35
13	17	((spreadsheet (spread adj1 sheet)) same ((page) with (tab identif\$5 label index) with (creat\$3 defin\$3 assign\$3 specif\$4))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/14 10:40
14	154	(345/777, 776, "775").CCLS.	USPAT	2003/07/14 10:41
15	265243	((tab identif\$5 label index) with (creat\$3 defin\$3 assign\$3 specif\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/14 10:54
16	647802	((portion block row column) with (select\$3 designat\$3 highlight\$3 specif\$4)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/07/14 10:53

17	15892	((tab identif\$5 label index) with (creat\$3 defin\$3 assign\$3 specif\$4)) same ((portion block row column) with (select\$3 designat\$3 highlight\$3 specif\$4) )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/07/14 10:53
18	12073	((tab identif\$5 label index) with (creat\$3 defin\$3 assign\$3 specif\$4)) with ((portion block row column) with (select\$3 designat\$3 highlight\$3 specif\$4) )	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/07/14 10:54
19	508	(spreadsheet (spread adj1 sheet)) and (((tab identif\$5 label index) with (creat\$3 defin\$3 assign\$3 specif\$4)) with ((portion block row column) with (select\$3 designat\$3 highlight\$3 specif\$4) ))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/07/14 10:54
20	163876	(tab identif\$5 label index) with (creat\$3 defin\$3 assign\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/07/14 10:56
21	2949	((portion block row column) with (select\$3 designat\$3 highlight\$3 specif\$4) ) with ((tab identif\$5 label index) with (creat\$3 defin\$3 assign\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/07/14 10:56
22	176	(spreadsheet (spread adj1 sheet)) and (((portion block row column) with (select\$3 designat\$3 highlight\$3 specif\$4) ) with ((tab identif\$5 label index) with (creat\$3 defin\$3 assign\$3)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2003/07/14 10:57